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SEQUENCE LISTING

<110> Mueller-Hermelink, Hans Konrad  
Vollmers, Heinz

<120> Neoplasm Specific Antibodies and Uses  
Thereof

<130> 50308/006001

<140> 10/520,224  
<141> 2005-01-04

<150> PCT/IB2003/003487  
<151> 2003-07-02

<150> DE 10230516.1  
<151> 2002-07-06

<150> DE 10229907.2  
<151> 2002-07-04

<150> DE 10229906.4  
<151> 2002-07-04

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Thr Ala Arg Ile Thr Cys Ser Gly Asp Ala Leu Pro Lys Lys Tyr Pro  
20 25 30  
Tyr Trp Tyr Gln Gln Lys Ser Gly Gln Ala Pro Val Leu Val Ile Tyr  
35 40 45  
Glu Asp Ser Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60  
Ser Ser Gly Thr Met Ala Thr Leu Thr Ile Ser Gly Ala Gln Val Glu  
65 70 75 80  
Asp Glu Ala Asp Tyr Tyr Cys Tyr Ser Thr Asp Ser Ser Gly Asn Met  
85 90 95  
Ser Ser Glu Leu Gly Pro Ser Ser Pro Ser  
100 105

<210> 2  
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<220>  
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 <222> (1) ... (318)

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acg gcc agg atc acc tgc tct gga gat gca ttg cca aaa aaa tat cct Thr Ala Arg Ile Thr Cys Ser Gly Asp Ala Leu Pro Lys Lys Tyr Pro 20                25                30	96
tat tgg tac cag cag aag tca ggc cag gcc cct gtg ctg gtc atc tat Tyr Trp Tyr Gln Gln Lys Ser Gly Gln Ala Pro Val Leu Val Ile Tyr 35                40                45	144
gag gac agc aaa cga ccc tcc ggg atc cct gag aga ttc tct ggc tcc Glu Asp Ser Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser 50                55                60	192
agc tca ggg aca atg gcc acc ttg act atc agt ggg gcc cag gtg gag Ser Ser Gly Thr Met Ala Thr Leu Thr Ile Ser Gly Ala Gln Val Glu 65                70                75                80	240
gat gaa gct gac tac tac tgt tac tca aca gac agc agt ggt aat atg Asp Glu Ala Asp Tyr Tyr Cys Tyr Ser Thr Asp Ser Ser Gly Asn Met 85                90                95	288
tct tcg gaa ctg gga cca agc tca ccg tcc Ser Ser Glu Leu Gly Pro Ser Ser Pro Ser 100                105	318
 <210> 3 <211> 98 <212> PRT <213> Homo sapiens	
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<210> 4
<211> 294
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<220>
<221> CDS
<222> (1) ... (294)

<400> 4
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Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser
 1          5           10          15
.
tat gcc atg agc tgg gtc cgc cag gct cca ggg aag ggg ctg gag tgg      96
Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
 20         25           30
.
gtc tca gct att agt ggt agt ggt ggt agc aca tac tac gca gac tcc      144
Val Ser Ala Ile Ser Gly Ser Gly Ser Thr Tyr Tyr Ala Asp Ser
 35         40           45
.
gtg aag ggc cgg ttc acc atc tcc aga gac aat tcc aag aac acg ctg      192
Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu
 50         55           60
.
tat ctg caa atg aac agc ctg aga gcc gag gac acg gcc gta tat tac      240
Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr
 65         70           75           80
.
tgt gcg aaa gat tca ttt cgt gaa gga ccc tgg ggc cag gga acc ctg      288
Cys Ala Lys Asp Ser Phe Arg Glu Gly Pro Trp Gly Gln Gly Thr Leu
 85         90           95
.
gtc acc
Val Thr      294

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<210> 5
<211> 116
<212> PRT
<213> Homo sapiens

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Ser Ala Ser Leu Thr Cys Thr Leu Arg Ser Gly Ile Asn Val Gly Thr
   20          25          30
Tyr Arg Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Gln Tyr
   35          40          45
Leu Leu Arg Tyr Lys Ser Asp Ser Asp Lys Gln Lys Gly Ser Gly Val
   50          55          60
Pro Ser Arg Phe Ser Gly Ser Lys Asp Ala Ser Ala Asn Ala Gly Ile
   65          70          75          80
Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys
   85          90          95

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Met Ile Trp His Ser Ser Ala Trp Val Phe Gly Gly Gly Thr Lys Leu  
100 105 110  
Thr Val Leu Gly  
115

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<220>  
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<222> (1) ... (348)

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tca gcc agt ctc acc tgc acc ttg cgc agt ggc atc aat gtt ggt acc 96  
Ser Ala Ser Leu Thr Cys Thr Leu Arg Ser Gly Ile Asn Val Gly Thr  
20 25 30

tac agg ata tac tgg tac cag cag aag cca ggg agt cct ccc cag tat 144  
Tyr Arg Ile Tyr Trp Tyr Gln Gln Lys Pro Gly Ser Pro Pro Gln Tyr  
35 40 45

ctc ctg agg tac aaa tca gac tca gat aag cag aag ggc tct gga gtc 192  
Leu Leu Arg Tyr Lys Ser Asp Ser Asp Lys Gln Lys Gly Ser Gly Val  
50 55 60

ccc agc cgc ttc tct gga tcc aaa gat gct tcg gcc aat gca ggg att 240  
Pro Ser Arg Phe Ser Gly Ser Lys Asp Ala Ser Ala Asn Ala Gly Ile  
65 70 75 80

tta ctc atc tct ggg ctc cag tct gag gat gag gct gac tat tac tgt 288  
Leu Leu Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys  
85 90 95

atg att tgg cac agc agc gct tgg gtg ttc ggc gga ggg acc aag ctg 336  
Met Ile Trp His Ser Ser Ala Trp Val Phe Gly Gly Thr Lys Leu  
100 105 110

acc gtc cta ggt 348  
Thr Val Leu Gly  
115

<210> 7  
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<212> PRT  
<213> Homo sapiens

<400> 7  
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1 5 10 15

Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp  
     20                       25                       30  
 Val Ser Ala Ile Ser Gly Ser Gly Ser Thr Tyr Tyr Ala Asp Ser  
     35                       40                       45  
 Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu  
     50                       55                       60  
 Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr  
     65                       70                       75                       80  
 Cys Ala Lys Gly Gly Ala Glu Gly Trp Tyr Glu Tyr Tyr Tyr Tyr  
     85                       90                       95  
 Gly Met Asp Val Trp Gly Gln Gly Thr Leu Val  
     100                       105

<210> 8  
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 <212> DNA  
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<220>  
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 <222> (1)...(321)

<400> 8

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Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser	
1                       5                               10                       15	
tat gcc atg agc tgg gtc cgc cag gct cca ggg aag ggg ctg gag tgg	96
Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp	
20                       25                               30	
gtc tca gct att agt ggt agt ggt agt aca tac tac gca gac tcc	144
Val Ser Ala Ile Ser Gly Ser Gly Ser Thr Tyr Tyr Ala Asp Ser	
35                       40                               45	
gtg aag ggc cgg ttc acc atc tcc aga gac aat tcc aag aac acg ctg	192
Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu	
50                       55                               60	
tat ctg caa atg aac agc ctg aga gcc gag gac acg gcc gta tat tac	240
Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr	
65                       70                               75                       80	
tgt gcg aaa ggt ggg gcc gaa ggc tgg tac gag tac tac tac tac tac	288
Cys Ala Lys Gly Gly Ala Glu Gly Trp Tyr Glu Tyr Tyr Tyr Tyr Tyr	
85                       90                               95	
ggt atg gac gtc tgg ggc caa ggg acc ctg gtc	321
Gly Met Asp Val Trp Gly Gln Gly Thr Leu Val	
100                       105	

<210> 9  
 <211> 110  
 <212> PRT  
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<400> 9  
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 Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr  
 20 25 30  
 Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu  
 35 40 45  
 Met Ile Tyr Asp Val Ser Asn Arg Pro Ser Gly Val Ser Asn Arg Phe  
 50 55 60  
 Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu  
 65 70 75 80  
 Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Lys Arg Ser Ser  
 85 90 95  
 Asn Thr Leu Val Phe Gly Gly Thr Lys Leu Thr Val Leu  
 100 105 110

<210> 10  
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 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (1)...(330)

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 1 5 10 15  
 tcg atc acc atc tcc tgc act gga acc agc agt gac gtt ggt ggt tat 96  
 Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr  
 20 25 30  
 aac tat gtc tcc tgg tac caa cag cac cca ggc aaa gcc ccc aaa ctc 144  
 Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu  
 35 40 45  
 atg att tat gat gtc agt aat cgg ccc tca ggg gtt tct aat cgc ttc 192  
 Met Ile Tyr Asp Val Ser Asn Arg Pro Ser Gly Val Ser Asn Arg Phe  
 50 55 60  
 tct ggc tcc aag tct ggc aac acg gcc tcc ctg acc atc tct gga ctc 240  
 Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu  
 65 70 75 80  
 cag gct gag gac gag gct gat tac tac tgc agc tca aaa aga agc agc 288  
 Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Lys Arg Ser Ser  
 85 90 95  
 aac act cta gta ttc ggc gga ggg acc aag ctg acc gtc cta 330  
 Asn Thr Leu Val Phe Gly Gly Thr Lys Leu Thr Val Leu  
 100 105 110

<210> 11  
 <211> 109  
 <212> PRT  
 <213> Homo sapiens

<400> 11  
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 Ser Phe Thr Thr Tyr Trp Ile Gly Trp Val Arg Gln Met Pro Gly Lys  
   20               25                   30  
 Gly Leu Glu Trp Met Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg  
   35               40                   45  
 Tyr Ser Pro Ser Phe Gln Gly Gln Val Thr Ile Ser Ala Asp Thr Ser  
   50               55                   60  
 Ile Ser Thr Ala Tyr Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr  
   65               70                   75                   80  
 Ala Ile Tyr Tyr Cys Ala Arg Glu Val Tyr Thr Gly Arg Asn Tyr Tyr  
   85               90                   95  
 Tyr Tyr Gly Leu Asp Val Trp Gly Gln Gly Thr Leu Val  
   100              105

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 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (1)...(327)

<400> 12  
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 Lys Lys Pro Gly Glu Ser Leu Arg Ile Ser Cys Lys Gly Ser Gly Tyr  
   1               5                   10                   15  
  
 agt ttt acc acc tac tgg atc ggc tgg gtg cgc cag atg ccc ggg aaa   96  
 Ser Phe Thr Thr Tyr Trp Ile Gly Trp Val Arg Gln Met Pro Gly Lys  
   20               25                   30  
  
 ggc ctg gag tgg atg ggg atc atc tat cct ggt gac tct gat acc aga   144  
 Gly Leu Glu Trp Met Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg  
   35               40                   45  
  
 tac agc ccg tcc ttc caa ggc cag gtc acc atc tca gcc gac acg tcc   192  
 Tyr Ser Pro Ser Phe Gln Gly Gln Val Thr Ile Ser Ala Asp Thr Ser  
   50               55                   60  
  
 atc agt acc gcc tac ctg cag tgg agc agc ctg aag gcc tcg gac acc   240  
 Ile Ser Thr Ala Tyr Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr  
   65               70                   75                   80  
  
 gcc ata tat tac tgt gcg agg gag gtc tat act ggc cga aac tac tac   288  
 Ala Ile Tyr Tyr Cys Ala Arg Glu Val Tyr Thr Gly Arg Asn Tyr Tyr  
   85               90                   95

tac tac ggt ctg gac gtc tgg ggc caa gga acc ctg gtc  
Tyr Tyr Gly Leu Asp Val Trp Gly Gln Gly Thr Leu Val  
100 105

327